

CDOE
MASTER OF BUSINESS ADMINISTRATION (EXECUTIVE) (CBCS-2019 COURSE)
M.B.A. (E) SEM - I : WINTER :- 2021
SUBJECT: STATISTICAL & MATHEMATICAL TECHNIQUES

Day : Friday
Date 11/2/2022

W-21547-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N.B.:

- 1) Answer ANY THREE questions from Section I. Each question carries 10 Marks.
- 2) Answer ANY TWO questions from Section II. Each question carries 15 Marks.
- 3) Answers to Both the sections should be written in SAME answer book.
- 4) Draw a labeled diagram WHEREVER necessary.

SECTION - I

Q.1) Answer the following : (10 Marks X 1=10 Marks)

Define Statistics. Explain the importance of Statistics in business Domain.

Q.2) Answer the following: (10 Marks X 1=10 Marks)

Find Karl Pearson's Correlation Coefficient from the following data.

X	12	24	36	48	20	26	34	37	46	50
Y	10	27	25	42	26	36	40	38	48	47

Q.3) Answer the following: (10 Marks X 1=10 Marks)

From the following data find

- i) regression equation of X on Y
- ii) value of X when Y = 23

X	20	22	24	26	28	30	32	34
Y	48	52	56	60	64	68	72	76

Q.4) Answer the following : (10 Marks X 1=10 Marks)

Two unbiased dice are thrown simultaneously. What is the probability that,

- i) The total score multiple of 5?
- ii) The total score is a prime number?

Q.5) Write short notes on the following: Attempt ANY TWO (5 Marks X 2 = 10 Marks)

- a) Importance of Statistics in management
- b) Decision Making under risk
- c) Scatter Diagram

SECTION - II

Q.6) Answer the following : (15 Marks X 1=15 Marks)

Draw less than and more than ogives from the data given below.

Weekly wages (Rs)	10-20	20-30	30-40	40-50	50-60
No. of employees	10	20	40	20	10

Q.7) Answer the following : (15 Marks X 1=15Marks)

Find mean, median and mode from the following data.

Wages in Rs.	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No of workers	12	25	56	85	54	25	18	05

Q.8) Answer the following : (15 Marks X 1=15 Marks)

Explain the following terms with suitable examples.

- i) Yule's coefficient of association
- ii) Binomial Distribution
- iii) Standard Deviation
